AMENDMENTS TO THE CLAIMS

Please amend claim 48 as indicted below:

1-28. (Canceled)

- 29. (Previously Presented) A system of joined structures, comprising:
- a first structure having a first aperture in a composite material, the first aperture having a first interior surface and a first minimum radial extent, the composite material configured so that a small radial force to the first internal surface will damage the composite material;
- a second structure having a second aperture in a metallic material, the second aperture having a second interior surface and a second minimum radial extent at least approximately the same as the first minimum radial extent; and
- a coupling device having a first shank section extending through the first aperture and a second shank section extending through the second aperture, but not extending into the first aperture, the first shank section of the coupling device having at least one of a hardness, toughness, and density greater than that of the second shank section of the coupling device, wherein:
 - a portion of the second shank section has a greater radial extent than the first shank section;
 - the portion of the second shank section applies a first radial force to the second interior surface and the first shank section applies at least approximately no radial force to the first interior surface; and the composite material proximate to the first aperture is undamaged.
- 30. (Canceled)

- 31. (Previously Presented) The system of claim 29 wherein the first shank section is not in contact with the first interior surface.
- 32. (Original) The system of claim 29 wherein the coupling device includes a rivet.
- 33. (Original) The system of claim 29 wherein the coupling device includes a metallic material.
- 34. (Previously Presented) The system of claim 29 wherein the composite material includes a carbon fiber material and the metallic material includes aluminum.
- 35. (Previously Presented) The system of claim 29 wherein the first shank section of the coupling device is connected to a head, and wherein the first aperture includes a countersunk portion for receiving the head.
- 36. (Previously Presented) The system of claim 29 wherein the first shank section of the coupling device is connected to a head, and wherein the head has a radial extent greater than a radial extent of at least a portion of the first aperture.
- 37. (Previously Presented) The system of claim 29 wherein the second shank section of the coupling device is connected to a tail, the tail extending out of the second aperture, the tail having a radial extent greater than a radial extent of at least a portion of the second aperture.
 - 38. (Previously Presented) The system of claim 29 wherein:
 - the first shank section of the coupling device is connected to a head, the head having a radial extent greater than a radial extent of at least a portion of the first aperture; and wherein

- the second shank section of the coupling device is connected to a tail, the tail extending out of the second aperture, the tail having a greater radial extent than a radial extent of at least a portion of the second aperture.
- 39. (Previously Presented) The system of claim 29 wherein:
- the first shank section of the coupling device is connected to a head, the head having a radial extent greater than a radial extent of at least a portion of the first aperture; and wherein
- the second shank section of the coupling device is connected to a tail, the tail extending out of the second aperture, the tail having a greater radial extent than a radial extent of at least a portion of the second aperture; and wherein the first and second structures are clamped together by the head and the tail.
- 40. (Original) The system of claim 29, further comprising a sealant proximate to the coupling device.
- 41. (Original) The system of claim 29, further comprising a vehicle, and wherein the coupling device, the first structure, and the second structure are installed in the vehicle.
 - 42. (Previously Presented) A system of joined structures, comprising:
 - a first structure having a first aperture in a composite material, the first aperture having a first interior surface and a first minimum radial extent, the composite material configured so that a small radial force to the first internal surface will damage the composite material;
 - a second structure having a second aperture in a metallic material, the second aperture having a second interior surface and a second minimum radial extent at least approximately the same as the first minimum radial extent; and

- a coupling device having a first shank section extending through the first aperture and a second shank section extending through the second aperture, but not extending into the first aperture, the first shank section of the coupling device having at least one of a hardness, toughness, and density greater than that of the second shank section of the coupling device, wherein:
 - a portion of the second shank section applies a first radial force to the second interior surface and the first shank section applies at least approximately no radial force to the first interior surface; and the composite material proximate to the first aperture is undamaged
- 43. (Previously Presented) The system of claim 42 wherein the portion of the second shank section has a greater radial extent than the first shank section.
- 44. (Previously Presented) The system of claim 42 wherein the composite material includes a carbon fiber material and the metallic material includes an aluminum material.
 - 45. (Previously Presented) An aircraft, comprising:
 - a first structure having a first aperture in a composite material, the first aperture having a first interior surface, the composite material configured so that a small radial force to the first interior surface will damage the composite material;
 - a second structure having a second aperture in a metallic material, the second aperture having a second interior surface, the first aperture having a minimum radial extent at least approximately the same as a minimum radial extent of the second aperture; and
 - a coupling device having a first shank section extending through the first aperture and a second shank section extending through the second aperture, but not extending into the first aperture, the first shank section of the coupling device

having at least one of a hardness, toughness, and density greater than that of the second shank section of the coupling device, wherein:

a portion of the second shank section has a greater radial extent than the first shank section;

the portion of the second shank section applies a first radial force to the second interior surface and the first shank section applies at least approximately no radial force to the first interior surface; and the composite material proximate to the first aperture is undamaged.

46. (Canceled)

- 47. (Previously Presented) An aircraft, comprising:
- a first structure including a composite material, the first structure having a first aperture in the composite material, the first aperture having a first interior surface and a first minimum radial extent, the composite material configured such that a small radial force to the first interior surface will damage the composite material;
- a second structure including a metallic material, the second structure having a second aperture in the metallic material, the second aperture having a second interior surface and a second minimum radial extent at least approximately the same as the first minimum radial extent; and
- a coupling device having a first shank section extending through the first aperture and a second shank section extending through the second aperture, but not extending into the first aperture, the first shank section of the coupling device having at least one of a hardness, toughness, and density greater than that of the second shank section of the coupling device, wherein:
 - a portion of the second shank section has a greater radial extent than the first shank section so that the portion of the second shank section applies a first radial force to the second interior surface and the first shank

- section applies at least approximately no radial force to the first interior surface; and wherein
- the composite material proximate to the first aperture is undamaged; and wherein
- the first shank section of the coupling device is connected to a head, the head having a radial extent greater than a radial extent of at least a portion of the first aperture; and wherein
- the second shank section of the coupling device is connected to a tail, the tail extending out of the second aperture, the tail having a greater radial extent than a radial extent of at least a portion of the second aperture.
- 48. (Currently Amended) The system of claim 47, wherein: the composite material is carbon fiber and the metallic material is aluminum; the coupling device includes a metallic rivet; the first aperture includes a countersunk portion for receiving the head; and the system further comprising a sealant proximate to the coupling device.
- 49. (Previously Presented) The aircraft of claim 45 wherein the composite material is carbon fiber and the metallic material is aluminum.
- 50. (Previously Presented) The system of claim 47, wherein the composite material is carbon fiber and the metallic material is aluminum.